Monitoring Data Record

Project Title: <u>I-2511CB (I-85 Widening)</u> Stream Name: <u>Town Creek (Site 5)</u>						
City, County and other Location Information: <u>Rowan C</u> Date Construction Completed: <u>Water turned on 12/6/06</u>	County, I-85 Widening	g (-TI-PINC Sta. 20+35)				
Monitoring Year: (3) of 5 Ecoregion: 8 digit H USGS Quad Name and Coordinates:	UC unit 03040	103				
Rosgen Classification:						
Length of Project: 1,375 Urban or Rural: Urban	n Watershed S	Size:				
Monitoring DATA collected by: J. Young and R.						
Applicant Information:						
Name: NCDOT Roadside Environmen	tal Unit					
Address: 1425 Rock Quarry Rd, F						
Telephone Number: (919) 861-3772	Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov					
Consultant Information:						
Name:						
Address:						
Telephone Number:	Email address:					
Project Status: Complete						
Monitoring Schedule: The permittee shall perform the each year for the 5-year monitoring period: Reference problem areas (missing, stressed, damaged or dead planti remedial action); visual inspection of channel stal stability/morphology will not be required. The permittee sl of Engineers, Raleigh Regulatory Field Office Project Monitoring. If less than two bankfull events occur during monitoring until the second bankfull event is document separate monitoring years. In the event that the required bat monitoring period, the Corps of Engineers, in consultation further monitoring is not required. It is suggested that all be through the required monitoring period. The permittee sl twice each year (summer and winter) for the 5-year monitor monitoring period.	photos; plant survivings), estimated cause bility. Physical menall submit the monitoranger, within sixty of the first 5 years, the ted. The bankfull events do not of with the resource age ankfull occurrences be ball perform and submits.	al (i.e., identify specific is, and proposed/required asurements of channel oring reports to the Corps days after completing the permittee shall continue wents must occur during occur during the five-year noies, may determine that he monitored and reported mit photo documentation				
Section 1. PHOTO REFERENCE SITES (Monitoring at all levels must complete this section) Total number of reference photo locations at this si at each location. 2 additional photos were taken as Dates reference photos have been taken at this site:	an overview of the	buffer area.				
9/17/10 Individual from whom additional photos can be ob	tained (name, addr	ress, phone):				
Other Information relative to site photo reference:						

ADDITIONAL COMMENTS: Planted vegetation consisted of black willow and silky dogwood live stakes on the streambanks and tag alder, green ash, red maple, river birch, swamp chestnut oak, willow oak on 2/29/08 due to lack of planted vegetation. The planted species were noted surviving on site. Other vegetation noted included lespedeza, goldenrod, Juncus sp., cattail, sweetgum, pokeberry, jewelweed, sedge, minimal privet (close to PP#5), kudzu (encroaching on right bank downstream of PP#5), and various grasses. NCDOT will continue to monitor vegetation at this stream relocation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Town Creek stream relocation is stabile for the Year 3 Summer evaluation, except for some bank erosion on the left bank in front of a rock structure at Sta. 16+50. Some bank erosion was also noted on the right bank at Sta. 13+00 where a drainage ditch exits into the stream relocation. NCDOT live staked the eroded areas in March 2010 to help stabilize the banks. These areas have showed little or no change since the last evaluation. NCDOT will continue to monitor this stream relocation.

Date Inspected 9/17/10	-TI- PINC Sta. 13+00 Additional photo	-TI- PINC Sta. 16+50 Additional photo		
Structure Type		Rock Structure		
Is water piping through or around structure?				
Head cut or down cut present?				
Bank or scour erosion present?	Bank erosion on right bank	Bank erosion on left bank		
Other problems noted?				

Section 4. <u>DEBIT LEDGER</u>

The entire Town Creek (Site 5) stream mitigation site was used for the I-2511CB project to compensate for unavoidable stream impacts.

Town Creek



Photo Point #1 (Upstream)



Photo Point #2 (Upstream)



Photo Point #3 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Downstream)



Photo Point #3 (Downstream)

Year 3 Summer – September 2010

Town Creek



Photo Point #4 (Upstream)



Photo Point # 5 (Upstream)



(Overview looking downstream of buffer area)



Photo Point #4 (Downstream)



Photo Point #5 (Downstream)



(Overview looking upstream of buffer area)

Year 3 Summer – September 2010

Town Creek



Erosion on right bank @ -TI- PINC Sta. 13+00

Erosion on left bank @ -TI- PINC Sta. 16+50

Year 3 Summer – September 2010

